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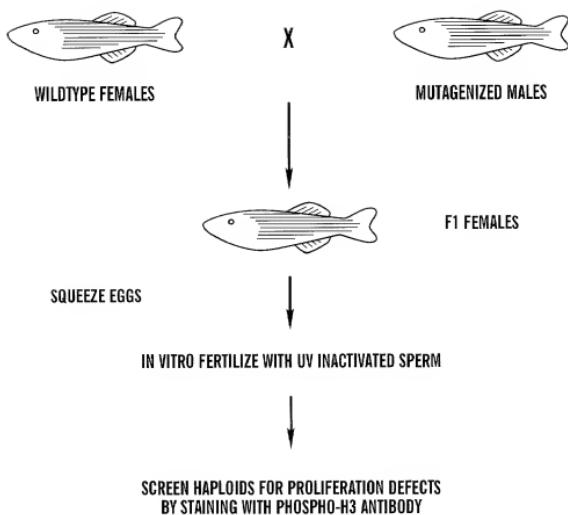


FIG. 1



12 HPF

FIG. 2A



16 HPF

FIG. 2B



24 HPF

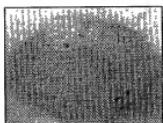
FIG. 2C



48 HPF

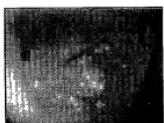
FIG. 2D

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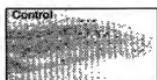
H3 ANTIBODY 24 HPF

FIG. 3A



ACRIDINE ORANGE 24 HPF

FIG. 3B



CONTROL

FIG. 4A



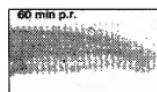
15 MIN POST-RADIATION

FIG. 4B



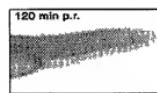
30 MIN POST-RADIATION

FIG. 4C



60 MIN POST-RADIATION

FIG. 4D



120 MIN POST-RADIATION

FIG. 4E



300 MIN POST-RADIATION

FIG. 4F

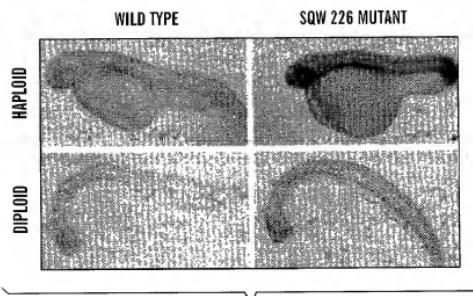


FIG. 5A

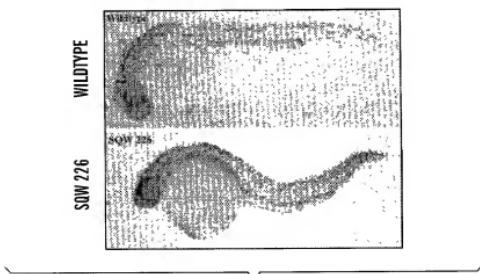


FIG. 5B

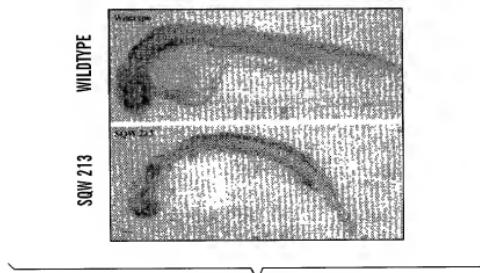


FIG. 5C

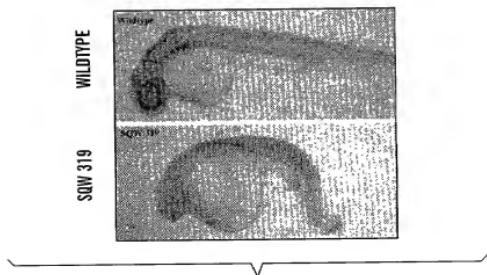


FIG. 5D

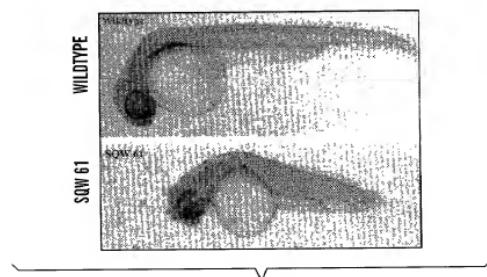


FIG. 5E

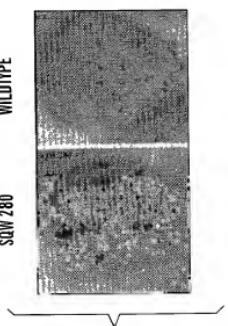


FIG. 5F

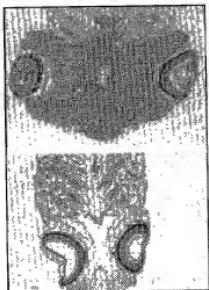


FIG. 6A

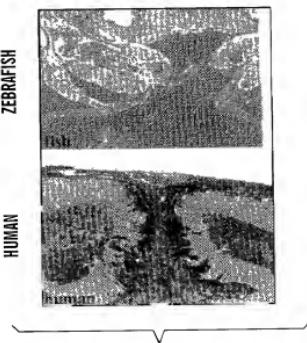


FIG. 6B

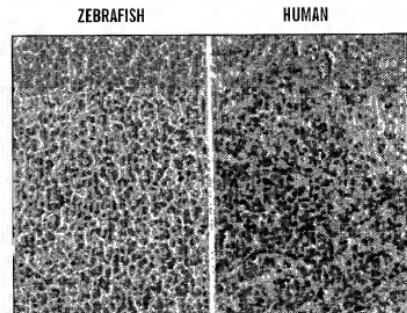


FIG. 6C



FIG. 6D

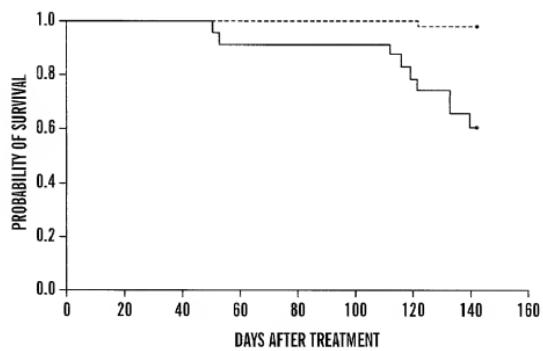
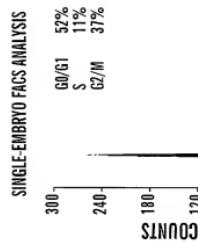
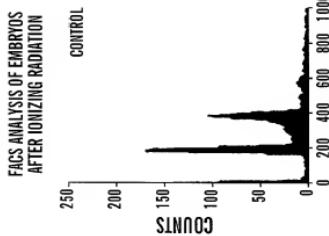
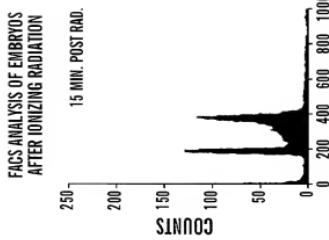
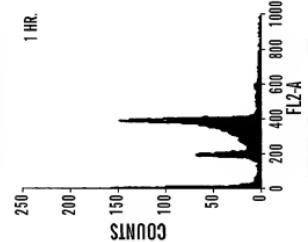
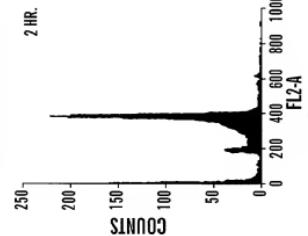
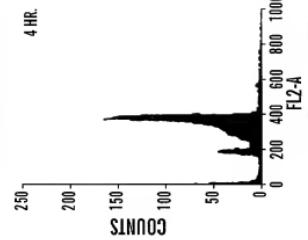
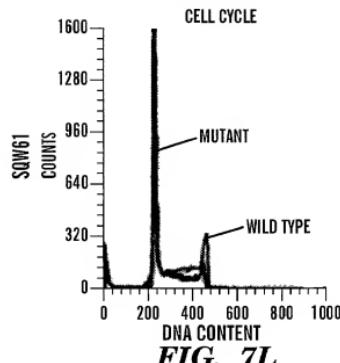
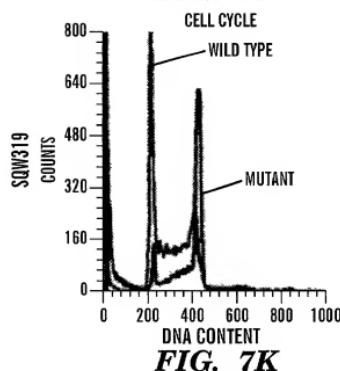
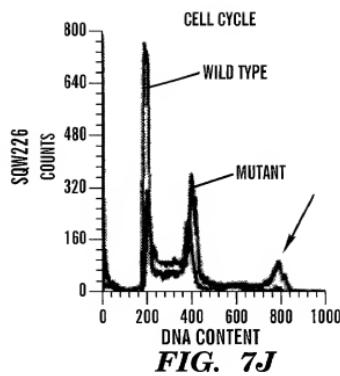
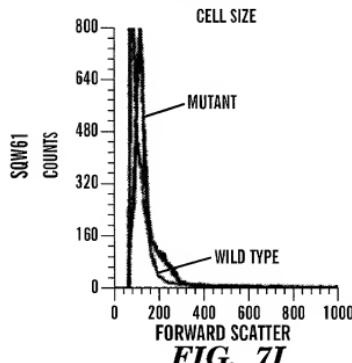
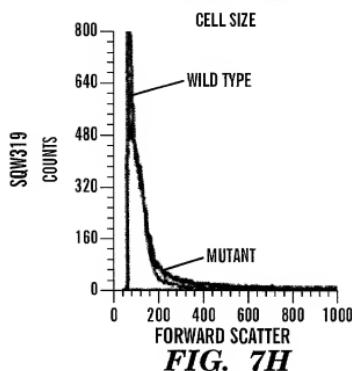
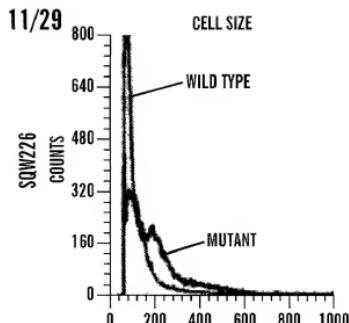


FIG. 6E

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**FIG. 7A****FIG. 7B****FIG. 7C****FIG. 7D****FIG. 7E****FIG. 7F**



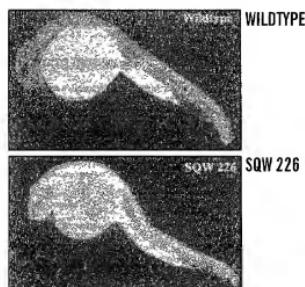


FIG. 8A

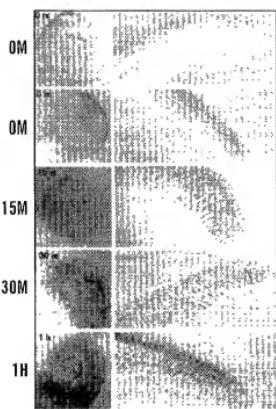


FIG. 8B

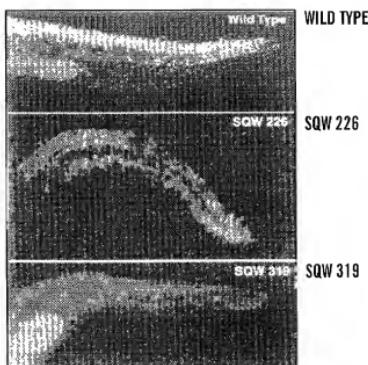


FIG. 8C

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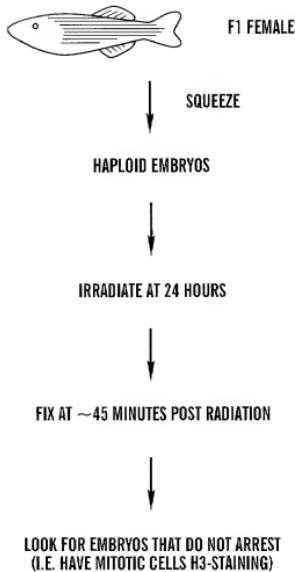


FIG. 9

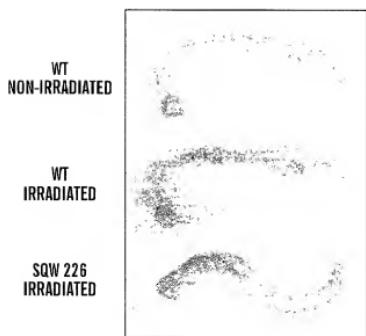


FIG. 10

Zfish	MPPH--KRSSGTPQKKELKGSLKSRSPDSDGN-----	AVLSPERHKDKDPRFVSEELOSTNSICDIAFRIMER	68
Frog	MPPKSPRK---QQIRSQGEPRSPDRP-----	DFQQDPDNFCENICLISONVRGKAWNTY	53
Human	MPPKTPRKTAAATAAAAAEEPPAPPAPPPPPPEEDPEQDSGPEDLPLVRLREFEETEEDETAICQKLKIPDHVRERALWTKEK	80	
Zfish	E1RSMOK-TNMPYSNRQQGAGLFIAGMELEGINTTQFLKAVLGSVKQFISVVKLGVWDTISCKNSAATRENEY	147	
Frog	MPPSGYMMRE-TAKKKESELCLCLYIASVDCEMTFFIPLLKILRLRSNRCFLREMDINMDVLSVKDIAISLKKY	132	
Human	VSSVDDGVLGGYIQQKKELVGTQIFIAVLDLDEMSTTIELOKNEIEVHKFFNLKEIDT-----STKVDAAMSPULPKY	155	
Zfish	DVTLIAVYQRFVKICGCFQFAEPONA-----KRKLEWSSMTFLKACTFQEDLVISFLCLLCLVLEFFKRLPSL	220	
Frog	ENMCLLFLQKFORFLFLFEEQHNT---RAAVDTAPIKGTWIFFLARCKLICLQDVLVISFLCLLCLVLDYFLPSL	209	
Human	DVLFALFSKLERPLCFLYLTQPS-SISTEINSALVKVSKLITFLLACEVLYQEDLVISFLCLLCLVLDYFLPSL	234	
Zfish	QSPVNSVSSSTLSPPTTSSEPNQGKSKPR---PAEADQMLLETLCKEGDQVDEVKVQSTPFCARLSDCLLGQQL	298	
Frog	LEKPYKSALNGLPVNTTPPSSEFSQNRTRVSPQSETSQSKVLFQFLCSOONYCP-DEVRNIVSTSVDLASCACISSNEE	289	
Human	LEKPYKTAV--IPINGSPRPFECARSAKPLQENLCTRIEGLQKHEEVDKVKVIFKNKTFPMSLGLVTSMLP	312	
Zfish	PMAALSKYEEELIISKIDPDLRFLSDELSPLNKIEVSKVETIPRNLFAEDIALPVQDQIHAATSIQURGDTSG	378	
Frog	KVSEISDROEEELIHSKIDPDLRFLENSEELTKVQVQDQSLDLERTPRO--ESEVFVPPQDQVFGAUNTYQDQAVTSSA	367	
Human	EVENLSKRYEEELIISKIDPDLRFLQXTLQDSDSDFETQTPRNSLDEEVNVIPIPHPTWNTIQLQHMLNA	392	
Zfish	SGQSSSNLIVYKNTTOSGEHKAQVEELCETVQORFAQAQVQCGEGLGRKSFYQCGALQYKVMESMVKEEKPLSVQ	458	
Frog	NKNGPDTOSQFSNCNTYAKTKTQDIEHFGVHFKKEFASCCAEETQYCPYKLVCLYYVMAILKTEEEERPLSYH	447	
Human	SGQSSNLTQVNCNTYAKTKTQDIEHFGVHFKKEFASCCAEETQYCPYKLVCLYYVMAILKTEEEERPLSYH	472	
Zfish	FSKLNNAAFTSLLACALEEVVIAVGTGSSLNGGFGRSQGASDVSQDQFPWISVFQLMQAFDFKVWISFIKAEP	538	
Frog	FSKLNNNDIFHIGLACAVEVWVMSARNA-----SQAYC-SGSGTNSPWIWRAFEIADFDYKVWISFIKAEP	518	
Human	FSKLNNNDIFHIGLACAVEVWVMSARNA-----SQDN-LDSTGQISPWIWVNLNAAFDFYKVWISFIKAEP	542	
Zfish	KHDVH-LCQCEHVMESLAWRADSPLFDLQKOSRE-ECPGQEAQAPATLQPLHNNHTAADLYLSPVSPCRQ-----	610	
Frog	TSNIIYRLECEKQIEMPLAWRADSPLFDLQKOTREREGLVDHPELVSQQVQHNTAADLYLSPVSSHHQHPVTSP	598	
Human	TRENTIYRLECEKQIEMPLAWRADSPLFDLQKOSRECPDTHLQSCPENLQHNNHTAADLYLSPVSPKKKGSTTRV	622	
Zfish	-P-PVMEAEPPTP--GTRAPRNSLSSLFKLLRMLRLLKFLSFLTSPETPQIWTUQHTLQEYELMRDRHLL	685	
Frog	TSSVTNGQVSSSPQVQ---QKSTLSSLFVKWILLAYRQSSLCSLSDPPEQVINTLULHTLQEYELMRDRHLL	674	
Human	NST-ANAETQATSAFQTQPKLQTSLSLFLYKVKWILLAYRQEEPELHINTLULHTLQEYELMRDRHLL	701	
Zfish	QLMISAMAIKKKMLRFLKTTIVTAYKEPNTQETFKVLLIREGGYQDSIIVFYLVPMQCKTINLQYSS-PPPTLSP	765	
Frog	QLMICSMIGCCKAKKIDLPRKTTIVTAYKEPNTQETFKVLLIRQDGQDSIIVFYLVPMQKLSHILQYCSAHTLSP	754	
Human	QLMICSMIGCCKAKKIDLPRKTTIVTAYKEPNTQETFKVLLIRQDGQDSIIVFYLVPMQKLSHILQYCSAHTLSP	781	
Zfish	IHPITPSPYK--NSPLRVPSNMVYNSPLSISRV-----SPLVITPSRILISIGESFGSAD-FQKINQCVSSSDWSL	837	
Frog	IHPITPSPYPRFGNSP-KVPL---NIVSPNLTPTKADGLSPSKMTKTSFELIIGETPSPDFQVQINQLNCSRPT	831	
Human	IHPITPSPYKFPSSPLRPGN---IIVSPNLTPTKADGLSPSKMTKTSFELIIGETPSPDFQVQINQLNCSRPT	860	
Zfish	RSAGGSGAPPLKLRLRFMDQDDEAGSKS-SGESALIPLKLAEMSTSMWVKEEKSDDKHPPEP. SEQ ID NO: 1	904	
Frog	RSADTGTTPKPLKLRLRFMDQDDEAGSKS-HGESKPKLAEMLSTHTRMMLKELESSQEEK SEQ ID NO: 2	899	
Human	RSAGGSPKPLKLRLRFMDQDDEAGSKS-HGESKPKLAEMLSTHTRMMLKELESSQEEK SEQ ID NO: 3	928	

FIG. 11

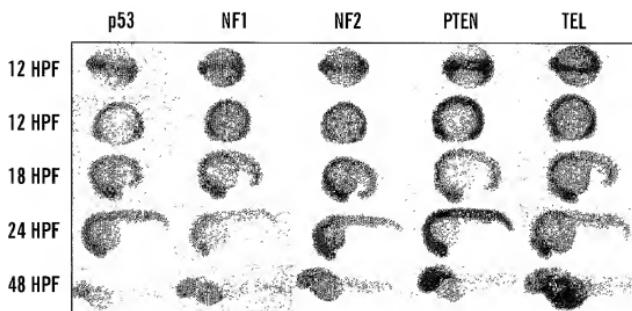


FIG. 12

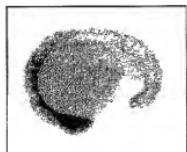


FIG. 13A

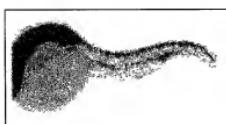


FIG. 13B



FIG. 13C

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モード切替

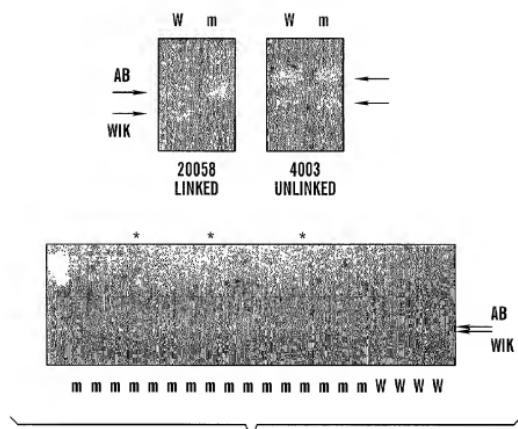
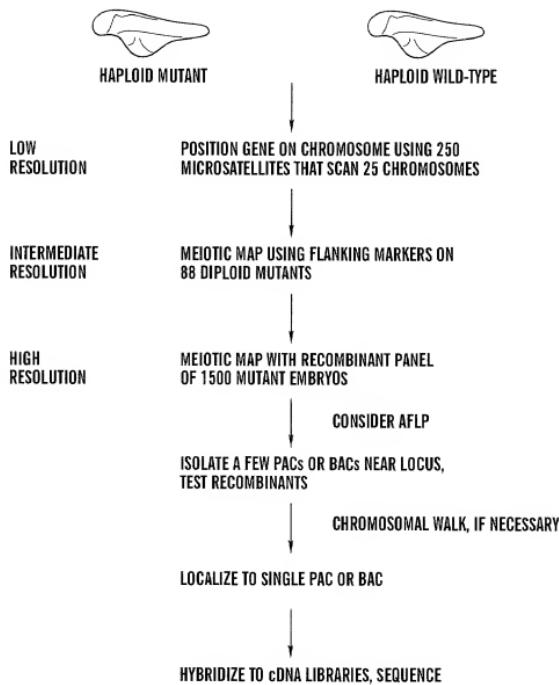


FIG. 14

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**FIG. 15**

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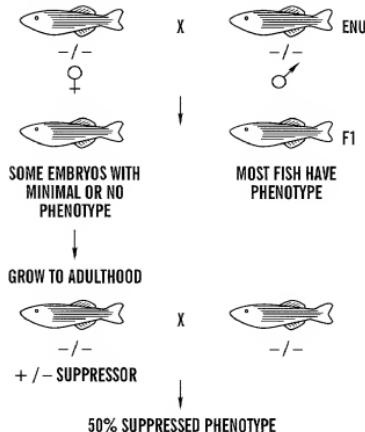


FIG. 16A

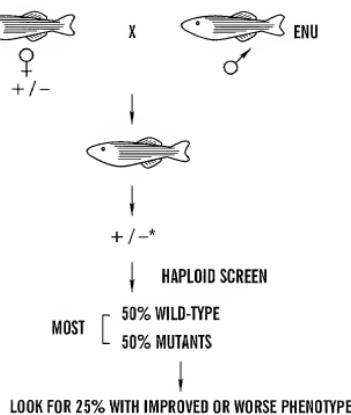


FIG. 16B

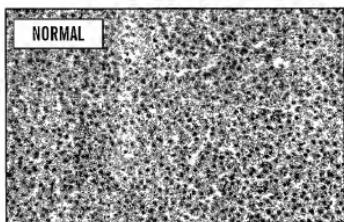


FIG. 17A



FIG. 17B

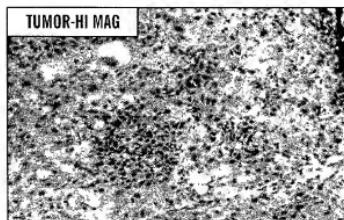


FIG. 17C

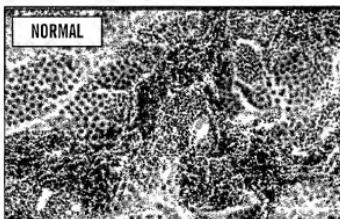


FIG. 18A

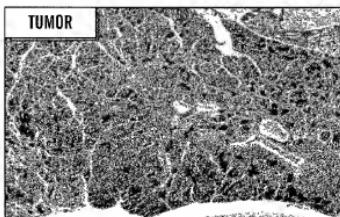


FIG. 18B

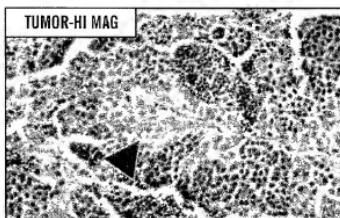


FIG. 18C

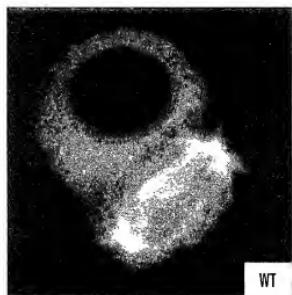


FIG. 19A



FIG. 19B

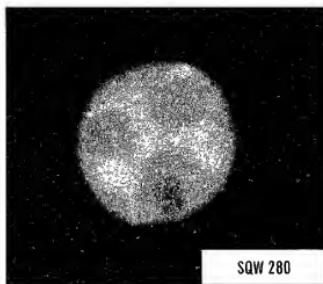


FIG. 19C



FIG. 19D

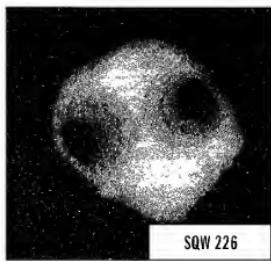


FIG. 19E

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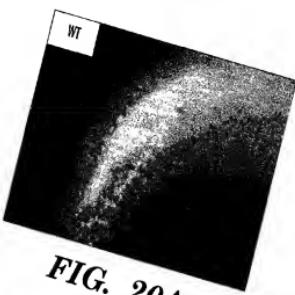


FIG. 20A



FIG. 20B



FIG. 20C

0.5753300 > 0.54104



FIG. 20D



FIG. 20E



FIG. 20F

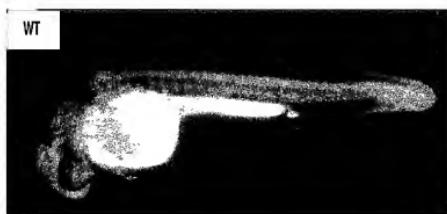


FIG. 21A

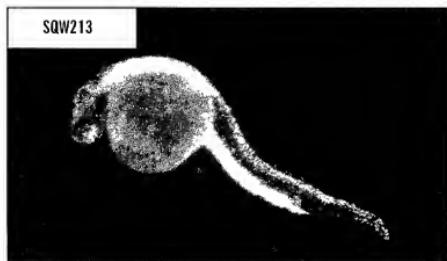


FIG. 21B

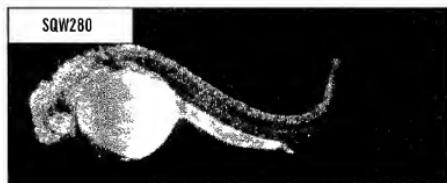


FIG. 21C

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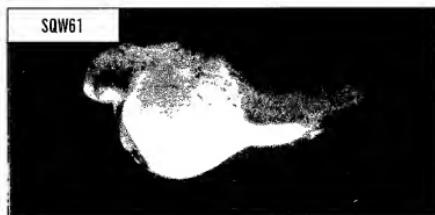


FIG. 21D

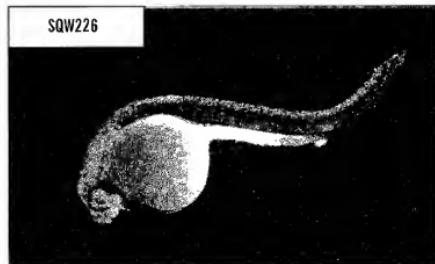


FIG. 21E



FIG. 21F